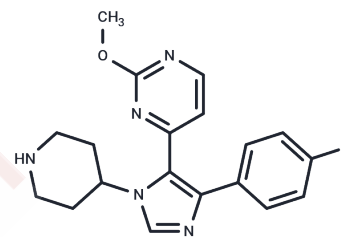


SB 242235

Chemical Properties

CAS No. : 193746-75-7
 Formula: C₁₉H₂₀N₅O
 Molecular Weight: 353.39
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	SB 242235 is a potent and selective p38 MAP kinase inhibitor that may be an effective therapy for cytokine-mediated diseases.
Targets(IC50)	Autophagy,p38 MAPK

Solubility Information

Solubility	DMSO: 60 mg/mL (169.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.66 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8297 mL	14.1487 mL	28.2973 mL
5 mM	0.5659 mL	2.8297 mL	5.6595 mL
10 mM	0.283 mL	1.4149 mL	2.8297 mL
50 mM	0.0566 mL	0.283 mL	0.5659 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Badger, A.M., et al., Differential effects of SB 242235, a selective p38 mitogen-activated protein kinase inhibitor, on IL-1 treated bovine and human cartilage/chondrocyte cultures. *Osteoarthritis Cartilage*, 2000. 8(6): p. 434-43.
- Ward, K.W., et al., SB-242235, a selective inhibitor of p38 mitogen-activated protein kinase. I: preclinical pharmacokinetics. *Xenobiotica*, 2002. 32(3): p. 221-33.
- Kim, A.L., et al., Role of p38 MAPK in UVB-induced inflammatory responses in the skin of SKH-1 hairless mice. *J Invest Dermatol*, 2005. 124(6): p. 1318-25.
- Ward, K.W., et al., SB-242235, a selective inhibitor of p38 mitogen-activated protein kinase. II: in vitro and in vivo metabolism studies and pharmacokinetic extrapolation to man. *Xenobiotica*, 2002. 32(3): p. 235-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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